

**METHODS OF SAMPLING AND TESTING**  
**MT 513-04**  
**A GUIDE TO LABORATORY FORMS**  
*(Montana Form Nos.)*

**1 Scope:**

- 1.1** This is a guide for the selection of the proper laboratory form when submitting samples, inspection reports, or certifications to the Materials Bureau.

**2 General:**

- 2.1** The following listing is given in two parts. Part I is used when submitting materials for testing. Part II tells which forms to use when submitting inspection reports or certifications for various types of materials. Each of these parts is further broken down into different classes of material (aggregate, asphalt, steel, etc.). Following each individual item is the number of the laboratory form to be used.

**PART I**

**FORMS TO ACCOMPANY SAMPLES**

**Soil and Aggregates**

Bedding Material - MBA 123  
 Blending Sand - MBA 123  
 Blotter Material - MBA 123  
 Binder - MBA 123  
 Borrow - MBA 123  
 Concrete Aggregate - MBA 124A  
 Crushed Base Course - MBA 123  
 Crushed Cover Aggregate - MBA 123  
 Crushed Top Surfacing - MBA 123  
 Cushion - MBA 123  
 Filter Material - MBA 123  
 Mineral Filler - MBA 123  
 Plant Mix Base Course - MBA 123  
 Plant Mix Surfacing - MBA 123  
 Proposed Surfacing - MBA 123  
 Proposed Concrete – MBA 124A  
 Sand Surfacing - MBA 123  
 Selected Surfacing - MBA 123  
 Soil and Water for Corrosion - 45  
 Soil for "R" Value - MBA 123  
 Topsoil - MBA 123

**Asphalt**

All asphaltic materials will be submitted on the following laboratory forms;  
 QA projects - CB-57  
 Non QA projects and maintenance - 10I-C

**Steel Products**

Reinforcing Bars - 45  
 Pre-stress Strand - 45  
 Wire Mesh - 45  
 Steel Pipe - 45

**Miscellaneous Materials**

Bark - MBA 123  
 Canvas Shims - 45  
 Cement - 55  
 Conduit - 45  
 Delineators - 45  
 Electrical Wire - 45  
 Expansion Joint Filler - 45  
 Fencing Items - 45  
 Glass Beads - 45  
 Mulch - 45  
 Paint - 45  
 Peat Moss - 45  
 Plastic Pipe - 45  
 Protective Coating - 45  
 Riprap - 45  
 Seed - 45  
 Signing Material - 45  
 U-posts - 45  
 Wood Cores - 45  
 Wood Preservatives - 45  
 Wood Products - 45

**Bituminous Mixtures**

Plant Mix Material for Extraction - 45  
Plant Mix Material for Monitoring - 45  
Plant Mix Pavement - 45

**Concrete Samples**

Concrete Cores - 45  
Concrete Cylinders - 93  
Concrete Cylinders (AR) - 77  
Concrete Flexural Beams - 93

**PART II**

**FORMS FOR INSPECTION AND CERTIFICATION**

**Certifications**

Contractor's Certification of Compliance: Non-Structural Steel & Iron Items – Form 406  
Contractor's Certification of Compliance: Miscellaneous Items – Form 407  
All certifications of materials should be accompanied by Lab. Form No. 46

**Inspection Reports**

Corrugated Metal Pipe Culvert and Misc. Culvert Items - 102  
Field Nuclear Density Tests - MBF 1000A  
Pre-cast Concrete Items (Culverts, Barrier Rail, etc.) - 19A  
Pre-stress Beam Inspection Report - 48  
Pre-stress Beam Pre-tensioning Record - BR-12  
Steel and Misc. Structural Materials  
1) Fabrication Inspection - MB-2  
2) Field Inspection - MBF 46  
Welding Inspection  
1) Pre-fabrication Welding - WI-1  
2) Fabrication Welding - WI-2  
3) Final Welding - WI-3  
4) Miscellaneous Welding - WI-4  
Wood Products - 45